BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work:Construction of Ambedkar Samudaya Bhavana At Mallasandra in Ward no.13 Shettihalli Sub Division

							Modified Estimated cost Rs			1,95,14,411.87
Sl. No	Description of work	No's	Dimensions				Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
			Length	Breadth	D/H					
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications, specification. No. KBS 2.1 (a)/2.3.1(I.tm No.2.1, P.No.5, SR:2016 17)									
	Levelling Site Area	1.00	1.00	30.00	19.00	3.55	2023.50			
	BOQ Qty 1618.80 Cum					**Total Qty**	**2023.50**			
	Upto 125% of BOQ						**2023.50**	**314.00**	**Cum**	**6,35,379.00**
2	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches,stacking the excavated soil clear from edges of excavation with lead upto 50 m.after breaking of clods complete as per complete as per specifications.with all lead and lift and directions of the Engineer-In-charge of the work									
	Footing Excavation									
	F2	1.00	5.00	3.30	3.00	2.80	138.60			
	F3	1.00	7.00	3.40	3.20	2.80	213.25			
	F4	1.00	9.00	2.90	2.90	2.80	211.93			
	F6	1.00	1.00	6.90	4.20	2.80	81.14			
	F7	1.00	1.00	4.90	3.30	2.80	45.28			
	F8	1.00	1.00	5.00	3.40	2.80	47.60			
	Retaining Wall	1.00	1.00	38.50	2.40	2.80	258.72			
	SSM Excavation									
	Grid 1-7 Along A,C,F,G	1.00	4.00	15.83	1.00	1.20	75.98			
	Grid A-G Along 1,7	1.00	1.00	22.86	1.00	1.20	27.43			
	Grid F-C Along 2,6	1.00	2.00	12.87	1.00	1.20	30.89			
	Grid A-C Along 6	1.00	1.00	5.52	1.00	1.20	6.62			
	Grid 6-7 along B	1.00	1.00	2.80	1.00	1.20	3.36			
	Sump Excavation	1.00	1.00	3.65	2.64	2.00	19.30			
	BOQ Qty 628.31 Cum				Total Qty		**1160.10**			
	Upto 125% of BOQ						**785.39**	**474.00**	**Cum**	**3,72,273.68**
	Above 125% of BOQ						**374.72**	**320.68**	**Cum**	**1,20,163.16**
	Basic rate	**283.00**								
	Area weightage @ 8 %	**22.64**								
	Total	**305.64**								
	Add TP 4.92% above	**15.04**								
	Total	**320.68**								
3	KSRB 2.14-1: Extra for additional lift of 1.5m. or part thereof for excavation In loose / soft or hard rock including cost of materials, labour complete as per specifications, specification. No. KBS (I.tm No.2.22, P.No.7, SR:2016-17)									
	Footing Excavation									
	F2	1.00	5.00	3.30	3.00	1.30	64.35			
	F3	1.00	7.00	3.40	3.20	1.30	99.01			
	F4	1.00	9.00	2.90	2.90	1.30	98.40			
	F6	1.00	1.00	6.90	4.20	1.30	37.67			
	F7	1.00	1.00	4.90	3.30	1.30	21.02			
	F8	1.00	1.00	5.00	3.40	1.30	22.10			
	Retaining Wall	1.00	1.00	38.50	2.40	1.30	120.12			

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Sl. No	Description of work	No's			Dimensions		Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
					Total Qty		462.67			
	BOQ Qty 169.90 Cum						212.38	28.00	Cum	
	Upto 125% of BOQ						250.30	24.93	Cum	5,946.50
	Above 125% of BOQ									6,239.60
	Basic rate	22.00								
	Area weightage @ 8 %	1.76								
	Total	23.76								
	Add TP 4.92% above	1.17								
	Total	24.93								
4	KSRB-3.2: Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier underand around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyriphos emulsifiable concentrates of 20% concentration, including cost of chemical, diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications. (Plinth area of the building at ground floor only shall be measured) Specification No. KBS : 3.2.6 / 3.2.7 (I.tm No.3.2, P.No.9, SR:2016-17)									
	Whole Building Area	1.00	1.00	23.00	16.00		368.00			
	BOQ Qty 287.51 Sqm				Total Qty		368.00			
	Upto 125% of BOQ						359.39	117.00	Sqm	42,048.34
	Above 125% of BOQ						8.61	116.71	Sqm	1,005.19
	Basic rate	103.00								
	Area weightage @ 8 %	8.24								
	Total	111.24								
	Add TP 4.92% above	5.47								
	Total	116.71								
5	KSRB 4-1.2 : Providing and laying in position plain cement concrete of cum mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (I.tm No.4.2, P.No.12, SR:2016-17)									
	Footing PCC									
	F2	1.00	5.00	2.70	2.40	0.15	4.86			
	F3	1.00	7.00	2.80	2.60	0.15	7.64			
	F4	1.00	9.00	2.30	2.30	0.15	7.14			
	F6	1.00	1.00	6.30	3.60	0.15	3.40			
	F7	1.00	1.00	4.30	2.70	0.15	1.74			
	F8	1.00	1.00	4.40	2.80	0.15	1.85			
	SSM PCC									
	Grid 1-7 Along A,C,F,G	1.00	4.00	15.83	1.00	0.15	9.50			
	Grid A-G Along 1,7	1.00	1.00	22.86	1.00	0.15	3.43			
	Grid F-C Along 2,6	1.00	2.00	12.87	1.00	0.15	3.86			
	Grid A-C Along 6	1.00	1.00	5.52	1.00	0.15	0.83			
	Grid 6-7 along B	1.00	1.00	2.80	1.00	0.15	0.42			
	Retaining Wall PCC	1.00	1.00	38.50	2.40	0.15	13.86			
	Sump PCC	1.00	1.00	3.65	2.64	0.15	1.45			
	Floor PCC									
	Grid 1-7 Along G,F	1.00	1.00	15.00	4.85	0.15	10.91			
	Grid F-C Along 5-7	1.00	1.00	12.45	5.00	0.15	9.34			
	Grid F-C Along 5-3	1.00	1.00	12.45	5.00	0.15	9.34			
	Grid F-C Along 1-3	1.00	1.00	12.45	5.00	0.15	9.34			
	Grid A-C along 1-7	1.00	1.00	15.00	5.45	0.15	12.26			
	BOQ Qty 86.09 Cum				Total Qty		111.17			
	Upto 125% of BOQ						107.61	5,300.00	Cum	5,70,346.25

Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
							3.56	5,717.80	Cum	20,327.95
	Above 125% of BOQ									
	Basic rate	5046.00								
	Area weightage @ 8 %	403.68								
	Total	5449.68								
	Add TP 4.92% above	268.12								
	Total	5717.80								
6	KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (I.tm No.5.6, P.No.23, SR:2016-17)									
	SSM									
	1st Step									
	Grid 1-7 Along C,F,G	1.00	3.00	15.23	0.80	0.40	14.62			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.80	0.40	7.32			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.80	0.40	8.24			
	Grid A-C Along 6	1.00	1.00	5.52	0.80	0.40	1.77			
	Grid 6-7 along B	1.00	1.00	2.80	0.80	0.40	0.90			
	Grid 1-7 along E	1.00	3.00	4.47	0.80	0.40	4.29			
	2nd Step									
	Grid 1-7 Along C,F,G	1.00	3.00	15.23	0.60	0.40	10.97			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.60	0.40	5.49			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.60	0.40	6.18			
	Grid A-C Along 6	1.00	1.00	5.52	0.60	0.40	1.32			
	Grid 6-7 along B	1.00	1.00	2.80	0.60	0.40	0.67			
	Deduction									
	Column (230x450)	-1.00	7.00	0.75	0.53	1.00	-2.78			
	Column (300x450)	-1.00	4.00	0.75	0.60	1.00	-1.80			
	Column (Dia 380mm)	-1.00	7.00	0.11		1.00	-0.77			
	BOQ Qty 35.56 Cum				Total Qty		56.40			
	Upto 125% of BOQ						44.45	4,750.00	Cum	2,11,137.50
	Above 125% of BOQ						11.95	4,744.44	Cum	56,697.49
	Basic rate	4187.00								
	Area weightage @ 8 %	334.96								
	Total	4521.96								
	Add TP 4.92% above	222.48								
	Total	4744.44								
7	KSRB 5.3-3: Providing and constructing granite / trap / basalt size stone masoniy in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13) (I.tm No.5.9, P.No.23, SR:2016-17)									
	SSM									
	Above Ground Level									
	Grid 1-7 Along C,F,G	1.00	3.00	15.23	0.45	0.40	8.22			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.45	0.40	4.11			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.45	0.40	4.63			
	Grid A-C Along 6	1.00	1.00	5.52	0.45	0.40	0.99			
	Grid 6-7 along B	1.00	1.00	2.80	0.45	0.40	0.50			
	Deduction									
	Column (230x450)	-1.00	7.00	0.45	0.23	0.40	-0.29			
	Column (300x450)	-1.00	4.00	0.45	0.30	0.40	-0.22			
	Column (Dia 380mm)	-1.00	7.00	0.11		0.40	-0.31			
	BOQ Qty 11.45 Cum				Total Qty		17.66			
	Upto 125% of BOQ						14.31	5,677.00	Cum	81,252.06
	Above 125% of BOQ						3.34	5,671.35	Cum	18,962.14
	Basic rate	5005.00								
	Area weightage @ 8 %	400.40								

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Sl. No	Description of work	No's	Dimensions				Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
	Total	**5405.40**								
	Add TP 4.92% above	**265.95**								
	Total	**5671.35**								
8	KSRB 4.2.1: Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super piasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspiliars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excludingcost of reinforcement as per specifications.Specification No. KBS Specification No. KBS 4.1,4.64.1,4.6(I.tm No.4.10, P.No.13, SR:2016-17)									
	Footing Footing									
	F2	1.00	5.00	2.70	2.40	0.45	14.58			
	F3	1.00	7.00	2.80	2.60	0.45	22.93			
	F4	1.00	9.00	2.30	2.30	0.45	21.42			
	F6	1.00	1.00	6.30	3.60	0.45	10.21			
	F7	1.00	1.00	4.30	2.70	0.45	5.22			
	F8	1.00	1.00	4.40	2.80	0.45	5.54			
	Pedestal Concrete									
	Column (230x450)	1.00	7.00	0.75	0.53	2.25	6.26			
	Column (300x450)	1.00	4.00	0.75	0.60	2.25	4.05			
	Column (Dia 380mm)	1.00	7.00	0.11		2.25	1.73			
	Retaining Wall									
	Raft Concrete	1.00	1.00	38.50	1.50	0.45	25.99			
	Wall	1.00	1.00	38.50	0.30	5.80	66.99			
	Column Upto Plinth									
	Column (230x450)	1.00	7.00	0.40	0.23	0.40	0.26			
	Column (300x450)	1.00	4.00	0.45	0.30	0.40	0.22			
	Column (Dia 380mm)	1.00	7.00	0.11		0.40	0.31			
	Plinth Beam Concrete									
	Grid 1-7 Along C,F,G	1.00	3.00	15.23	0.23	0.45	4.73			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.23	0.45	2.37			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.23	0.45	2.66			
	Grid A-C Along 6	1.00	1.00	5.52	0.23	0.45	0.57			
	Grid 6-7 along B	1.00	1.00	2.80	0.23	0.45	0.29			
	Sump Concrete									
	Raft Concrete	1.00	1.00	3.60	2.60	0.20	1.87			
	Wall Concrete	1.00	1.00	11.30	0.15	1.80	3.05			
	Top Slab	1.00	1.00	3.30	2.30	0.15	1.14			
	BOQ Qty 159.11 Cum				**Total Qty**		**202.39**			
	Upto 125% of BOQ						**198.89**	**6,534.00**	**Cum**	**12,99,530.93**
	Above 125% of BOQ						**3.51**	**7,049.24**	**Cum**	**24,724.22**
	Basic rate	**6221.00**								
	Area weightage @ 8 %	**497.68**								
	Total	**6718.68**								
	Add TP 4.92% above	**330.56**								
	Total	**7049.24**								

Sl. No	Description of work	No's	Dimensions				Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
9	KSRB 2.3: Filling available excavated earth (excluding rock) in sides cum of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications. Specification. No. KBS 2.9 (I.tm No.2.10, P.No.6, SR:2016-17)									
	Qty Vide Item No. 02						**(A)**	**1160.10**		
	Footing PCC									
	F2	1.00	5.00	2.70	2.40	0.15	4.86			
	F3	1.00	7.00	2.80	2.60	0.15	7.64			
	F4	1.00	9.00	2.30	2.30	0.15	7.14			
	F6	1.00	1.00	6.30	3.60	0.15	3.40			
	F7	1.00	1.00	4.30	2.70	0.15	1.74			
	F8	1.00	1.00	4.40	2.80	0.15	1.85			
	SSM PCC									
	Grid 1-7 Along A,C,F,G	1.00	4.00	15.83	1.00	0.15	9.50			
	Grid A-G Along 1,7	1.00	1.00	22.86	1.00	0.15	3.43			
	Grid F-C Along 2,6	1.00	2.00	12.87	1.00	0.15	3.86			
	Grid A-C Along 6	1.00	1.00	5.52	1.00	0.15	0.83			
	Grid 6-7 along B	1.00	1.00	2.80	1.00	0.15	0.42			
	Retaining Wall PCC	1.00	1.00	38.50	2.40	0.15	13.86			
	Footing Footing									
	F2	1.00	5.00	2.70	2.40	0.45	14.58			
	F3	1.00	7.00	2.80	2.60	0.45	22.93			
	F4	1.00	9.00	2.30	2.30	0.45	21.42			
	F6	1.00	1.00	6.30	3.60	0.45	10.21			
	F7	1.00	1.00	4.30	2.70	0.45	5.22			
	F8	1.00	1.00	4.40	2.80	0.45	5.54			
	Retaining Wall	1.00	1.00	38.50	2.40	0.45	41.58			
	SSM									
	1st Step									
	Grid 1-7 Along A,C,F,G	1.00	4.00	15.83	0.80	0.40	20.26			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.80	0.40	7.32			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.80	0.40	8.24			
	Grid A-C Along 6	1.00	1.00	5.52	0.80	0.40	1.77			
	Grid 6-7 along B	1.00	1.00	2.80	0.80	0.40	0.90			
	2nd Step									
	Grid 1-7 Along A,C,F,G	1.00	4.00	15.83	0.60	0.40	15.20			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.60	0.40	5.49			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.60	0.40	6.18			
	Grid A-C Along 6	1.00	1.00	5.52	0.60	0.40	1.32			
	Grid 6-7 along B	1.00	1.00	2.80	0.60	0.40	0.67			
	SSM DPC Concrete									
	Grid 1-7 Along C,F,G	1.00	3.00	15.83	0.45	0.15	3.21			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.45	0.15	1.54			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.45	0.15	1.74			
	Grid A-C Along 6	1.00	1.00	5.52	0.45	0.15	0.37			
	Grid 6-7 along B	1.00	1.00	2.80	0.45	0.15	0.19			
	Pedestal Concrete									
	Column (230x450)	-1.00	7.00	0.75	0.53	2.25	-6.26			
	Column (Dia 380mm)	-1.00	4.00	0.75	0.60	2.25	-4.05			
	Column (Dia 380mm)	-1.00	7.00	0.11		2.25	-1.73			
	Plinth Beam Concrete									
	Grid 1-7 Along C,F,G	1.00	3.00	15.23	0.23	0.45	4.73			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.23	0.45	2.37			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.23	0.45	2.66			
	Grid A-C Along 6	1.00	1.00	5.52	0.23	0.45	0.57			

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Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
	Grid 6-7 along B	1.00	1.00	2.80	0.23	0.45	0.29			
	Sump Concrete									
	Raft Concrete	1.00	1.00	3.60	2.60	0.20	1.87			
	Wall Concrete	1.00	1.00	11.30	0.15	1.80	3.05			
	Top Slab	1.00	1.00	3.30	2.30	0.15	1.14			
						Total (B)	259.04			
	BOQ Qty 341.15 Cum				Total Qty		901.06			
	Upto 125% of BOQ						426.44	160.00	Cum	68,230.00
	Above 125% of BOQ						474.62	143.91	Cum	68,302.02
	Basic rate	127.00								
	Area weightage @ 8 %	10.16								
	Total	137.16								
	Add TP 4.92% above	6.75								
	Total	143.91								
10	KSRB 2.5 : Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications, specification. No. KBS 2.9.9/2.9.10.1/2.1.1 (I.tm No.2.12, P.No.6, SR:2016-17)									
	Filling									
	Grid 1-7 Along G.F	1.00	1.00	15.00	4.85	1.10	80.03			
	Grid F-C Along 5-7	1.00	1.00	12.45	5.00	1.10	68.48			
	Grid F-C Along 5-3	1.00	1.00	12.45	5.00	1.10	68.48			
	Grid F-C Along 1-3	1.00	1.00	12.45	5.00	1.10	68.48			
	Grid A-C along 1-7	1.00	1.00	15.00	5.45	1.10	89.93			
	Retaining Wall	1.00	1.00	38.75	0.60	3.00	69.75			
	BOQ Qty 356.77 Cum				Total Qty		445.13			
	Upto 125% of BOQ						445.13	320.00	Cum	1,42,440.00
11	KSRB 4.2.7 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm cum and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, Unties, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fiHets Etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications, specification No. KBS 4.t, 4.6 (I.tm No.4.12, P.No.13, SR:2016-17)									
	Basement Floor									
	Column Concrete									
	Column (230x450)	1.00	7.00	0.45	0.23	3.00	2.17			
	Column (300x450)	1.00	4.00	0.45	0.30	3.00	1.62			
	Column (Dia 380mm)	1.00	7.00	0.11		3.00	2.31			
	Roof Beam Concrete									
	Horizontal									
	Grid A-G Along 7 B-1	1.00	1.00	19.83	0.23	0.45	2.05			
	Grid F-G Along 2,4,6 B-4	1.00	3.00	4.58	0.23	0.45	1.42			
	Grid A-F along 3,5 B-3	1.00	2.00	16.62	0.23	0.45	3.44			
	Grid A-G Along 1 B-1	1.00	1.00	19.83	0.23	0.45	2.05			
	Vertical									
	Grid 1-7 Along A B-2	1.00	1.00	13.86	0.23	0.45	1.43			
	Grid 1-7 Along C B-2	1.00	1.00	13.94	0.23	0.45	1.44			
	Grid 1-7 Along F B-2	1.00	1.00	13.42	0.23	0.45	1.39			
	Grid 1-7 Along G B-2	1.00	1.00	13.42	0.23	0.45	1.39			
	Grid 1-7 along E,D B5	1.00	2.00	16.64	0.23	0.45	3.44			
	Grid 5-7 along B B-6	1.00	1.00	4.66	0.23	0.45	0.48			

Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
	Roof Slab									
	Grid G-F along 7-6 S1	1.00	1.00	4.57	2.75	0.20	2.51			
	Grid G-F along 6-4 S2	1.00	1.00	4.57	4.30	0.20	3.93			
	Grid G-F along 4-2 S3	1.00	1.00	4.57	4.30	0.20	3.93			
	Grid G-F along 2-1 S4	1.00	1.00	4.57	2.75	0.20	2.51			
	Grid F-E along 7-5 S5	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid F-E along 7-5 S6	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid F-E along 5-3 S7	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid E-D along 7-5 S8	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid E-D along 5-3 S9	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid E-D along 3-1 S10	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid D-C along 7-5 S11	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid D-C along 5-3 S12	1.00	1.00	4.75	3.95	0.20	3.75			
	Grid D-C along 3-1 S13	1.00	1.00	4.75	3.95	0.20	1.61			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	0.20	1.23			
	Grid A-B along 7-5 S15	1.00	1.00	4.73	1.30	0.20	4.94			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	0.20	4.94			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75	0.20	4.94			
	Stairacse Concrete									
	1st Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Mid Landing	1.00	1.00	2.60	1.20	0.15	0.47			
	Mid Landing Beam	1.00	1.00	2.60	0.23	0.45	0.27			
	2nd Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Ground Floor									
	Column Concrete									
	Column (230x450)	1.00	9.00	0.45	0.23	3.00	2.79			
	Column (300x450)	1.00	8.00	0.45	0.30	3.00	3.24			
	Column (Dia 380mm)	1.00	6.00	0.11		3.00	1.98			
	Roof Beam Concrete									
	Horizontal									
	Grid A-G Along 7 B-7	1.00	1.00	19.83	0.23	0.45	2.05			
	Grid F-G Along 2,6 B-9	1.00	2.00	4.58	0.23	0.45	0.95			
	Grid A-C along 3,5 B-11	1.00	2.00	6.51	0.23	0.45	1.35			
	Grid A-G Along 1 B-7	1.00	1.00	19.83	0.23	0.45	2.05			
	Vertical									
	Grid 1-7 Along A B-8	1.00	1.00	13.86	0.23	0.45	1.43			
	Grid 1-7 Along C B-8	1.00	1.00	13.94	0.23	0.45	1.44			
	Grid 7-6 Along F B-10	1.00	1.00	2.75	0.23	0.45	0.28			
	Grid 1-2 Along F B-10	1.00	1.00	2.75	0.23	0.45	0.28			
	Grid 1-7 Along G B-8	1.00	1.00	13.42	0.23	0.45	1.39			
	Grid 5-7 along B B-12	1.00	1.00	4.66	0.23	0.45	0.48			
	Roof Slab									
	Grid G-F along 7-6 S1	1.00	1.00	4.57	2.75	0.20	2.51			
	Grid G-F along 2-1 S4	1.00	1.00	4.57	2.75	0.20	2.51			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	0.20	1.61			
	Grid A-B along 7-5 S15	1.00	1.00	4.73	1.30	0.20	1.23			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	0.20	4.94			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75	0.20	4.94			
	projection Slab	1.00	1.00	15.00	1.31	0.20	3.93			
	Stairacse Concrete									

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Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
	1st Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Mid Landing	1.00	1.00	2.60	1.20	0.15	0.47			
	Mid Landing Beam	1.00	1.00	2.60	0.23	0.45	0.27			
	2nd Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Maznain Floor									
	Column Concrete									
	Column (230x450)	1.00	7.00	0.45	0.23	2.65	1.92			
	Column (300x450)	1.00	8.00	0.45	0.30	2.65	2.86			
	Column (Dia 380mm)	1.00	6.00	0.11		2.65	1.75			
	Roof Beam Concrete									
	Horizontal									
	Grid A-G Along 7 B-13	1.00	1.00	19.83	0.23	0.45	2.05			
	Grid A-C along 3,5 B-15	1.00	2.00	6.51	0.23	0.45	1.35			
	Grid A-G Along 1 B-13	1.00	1.00	19.83	0.23	0.45	2.05			
	Vertical									
	Grid 1-7 Along A B-14	1.00	1.00	13.86	0.23	0.45	1.43			
	Grid 1-7 Along C B-14	1.00	1.00	13.94	0.23	0.45	1.44			
	Grid 1-7 Along G B-14	1.00	1.00	13.42	0.23	0.45	1.39			
	Grid 5-7 along B B-6	1.00	1.00	4.66	0.23	0.45	0.48			
	Roof Slab									
	Grid A-B along 7-5 S15	1.00	1.00	4.75	1.30	0.20	1.24			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	0.20	1.61			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	0.20	4.94			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75	0.20	4.94			
	Stairacse Concrete									
	1st Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Mid Landing	1.00	1.00	2.60	1.20	0.15	0.47			
	Mid Landing Beam	1.00	1.00	2.60	0.23	0.45	0.27			
	2nd Flight									
	Waist Slab	1.00	1.00	2.80	1.20	0.15	0.50			
	Steps	1.00	10.00	1.20	0.30	0.15	0.54			
	Lintel Concrete									
	Window	1.00	12.00	2.86	0.23	0.20	1.58			
	Window-1	1.00	7.00	2.26	0.23	0.20	0.73			
	Ventilator	1.00	7.00	2.86	0.23	0.20	0.92			
	Ventilator-1	1.00	2.00	1.06	0.23	0.20	0.10			
	Basement Floor									
	ED	1.00	1.00	3.26	0.23	0.20	0.15			
	D	1.00	2.00	1.66	0.23	0.20	0.15			
	Ground Floor									
	D1	1.00	2.00	1.66	0.23	0.20	0.15			
	D2	1.00	2.00	1.26	0.23	0.20	0.12			
	Meznaina Floor									
	D1	1.00	1.00	1.66	0.23	0.20	0.08			
	BOQ Qty 174.24 Cum				**Total Qty**		**167.35**			
	Upto 125% of BOQ						**167.35**	**6,687.00**	**Cum**	**11,19,080.80**

Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
12	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs, with 12mm and down size graded granite metal coarse aggregates @0.05175cum and fine aggregtes @ 0.0345cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete but excluding cost of reinforcement as per specifications. as per the direction of engineer in charge									
	Chajja Concreting.									
	Window	1.00	12.00	2.86		0.60	20.59			
	Window-1	1.00	7.00	2.26		0.60	9.49			
	Ventilator	1.00	7.00	2.86		0.60	12.01			
	Ventilator-1	1.00	2.00	1.06		0.60	1.27			
	BOQ Qty 21.48 Sqm				**Total Qty**		**43.37**	**478.00**	**Sqm**	**12,834.30**
	Upto 125% of BOQ						**26.85**	**516.71**	**Sqm**	**8,535.02**
	Above 125% of BOQ						**16.52**			
	Basic rate	**456.00**								
	Area weightage @ 8 %	**36.48**								
	Total	**492.48**								
	Add TP 4.92% above	**24.23**								
	Total	**516.71**								
13	Providing and casting reinforced cement concrete racks with design mix M20, granite or trap jelly 12mm and down size 5 cms thick and below with reinforcements of 6mm dia MS bars at 15 cms. Centre to centre for main reinforcement and at 30cm centre to centre for distribution including supports wherever necessary with burnt brick in CM 1:4 including centring, form work, curing etc., complete (inclusive of cost of steel and fabrication charges).									
							0			
					Total Qty		**0.00**			-
	BOQ Qty 10.20 Sqm						**0.00**	**932.00**	**Sqm**	
	Upto 125% of BOQ									
14	Providing RCC loft (atta) 7.5cms thick with cement concrete design sqm mix M20 using clean granite or trap jeliy of 20mm and down size with necessary reinforcements at 20cms centre to centre as per design including form work, centring, curing, etc., complete (exclusive of cost of steel and fabrication charges).									
							0			
					Total Qty		**0.00**			-
	BOQ Qty 10.54 Sqm						**0.00**	**473.00**	**Sqm**	
	Upto 125% of BOQ									
15	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded cum granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, nciuding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Ltm No.4.6, P.No.12, SR:2016-17)									
	SSM DPC Concrete									
	Grid 1-7 Along C,F,G	1.00	3.00	15.83	0.45	0.15	3.21			
	Grid A-G Along 1,7	1.00	1.00	22.86	0.45	0.15	1.54			
	Grid F-C Along 2,6	1.00	2.00	12.87	0.45	0.15	1.74			
	Grid A-C Along 6	1.00	1.00	5.52	0.45	0.15	0.37			
	Grid 6-7 along B	1.00	1.00	2.80	0.45	0.15	0.19			
	BOQ Qty 3.61 Cum				**Total Qty**		**7.05**			
	Upto 125% of BOQ						**4.51**	**5,714.00**	**Cum**	**25,784.43**
	Above 125% of BOQ						**2.54**	**6,165.39**	**Cum**	**15,630.35**
	Basic rate	**5441.00**								
	Area weightage @ 8 %	**435.28**								
	Total	**5876.28**								
	Add TP 4.92% above	**289.11**								
	Total	**6165.39**								

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Sl. No	Description of work	No's		Dimensions		Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
16	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (I.tm No.4.78, P.No.15, SR:2016-17)								
	Footing Shuttering								
	F2	1.00	5.00	10.20	0.50	25.50			
	F3	1.00	7.00	10.80	0.50	37.80			
	F4	1.00	9.00	9.20	0.50	41.40			
	F6	1.00	1.00	19.80	0.50	9.90			
	F7	1.00	1.00	14.00	0.50	7.00			
	F8	1.00	1.00	14.40	0.50	7.20			
	Pedestal Shuttering								
	Column (230x450)	1.00	7.00	2.56	2.75	40.32			
	Column (300x450)	1.00	4.00	2.70	2.75	24.30			
	Column (Dia 380mm)	1.00	7.00	1.19	2.75	18.74			
	BOQ Qty 169.98 Sqm				**Total Qty**	**212.16**			
	Upto 125% of BOQ					**212.16**	**262.00**	**Sqm**	**55,586.58**
17	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting. Sqm. propping etc., for columns, pillars, post and struts, square / rectangular/ polygon in plan including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.tm No.4.32, P.No.16, SR:2016-17)								
	Column Upto Plinth Shuttering								
	Column (230x450)	1.00	7.00	1.26	0.40	3.53			
	Column (300x450)	1.00	4.00	1.50	0.40	2.40			
	Column (Dia 380mm)	1.00	7.00	1.20	0.40	3.36			
	Basement Floor								
	Column Shuttering								
	Column (230x450)	1.00	7.00	1.26	3.00	26.46			
	Column (300x450)	1.00	4.00	1.50	3.00	18.00			
	Column (Dia 380mm)	1.00	7.00	1.20	3.00	25.20			
	Ground Floor								
	Column Shuttering								
	Column (230x450)	1.00	9.00	1.26	3.00	34.02			
	Column (300x450)	1.00	8.00	1.50	3.00	36.00			
	Column (Dia 380mm)	1.00	6.00	1.20	3.00	21.60			
	Maznain Floor								
	Column Shuttering								
	Column (230x450)	1.00	7.00	1.26	2.65	23.37			
	Column (300x450)	1.00	8.00	1.50	2.65	31.80			
	Column (Dia 380mm)	1.00	6.00	1.20	2.65	19.08			
	BOQ Qty 234.75 Sqm				**Total Qty**	**244.82**			
	Upto 125% of BOQ					**244.82**	**461.00**	**Sqm**	**1,12,862.48**
18	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons.up to 3.50m from Ground level. Specification No. KBS 4.6.2 (I.tm No.4.18, P.No.15, SR:2016-17)								
	Basement Floor								
	Roof Slab Shuttering								
	Grid G-F along 7-6 S1	1.00	1.00	4.57	2.75	12.57			
	Grid G-F along 6-4 S2	1.00	1.00	4.57	4.30	19.65			
	Grid G-F along 4-2 S3	1.00	1.00	4.57	4.30	19.65			
	Grid G-F along 2-1 S4	1.00	1.00	4.57	2.75	12.57			
	Grid F-E along 7-5 S5	1.00	1.00	4.75	3.95	18.76			
	Grid F-E along 7-5 S6	1.00	1.00	4.75	3.95	18.76			

Sl. No	Description of work	No's		Dimensions		Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
	Grid F-E along 5-3 S7	1.00	1.00	4.75	3.95	18.76			
	Grid E-D along 7-5 S8	1.00	1.00	4.75	3.95	18.76			
	Grid E-D along 5-3 S9	1.00	1.00	4.75	3.95	18.76			
	Grid E-D along 3-1 S10	1.00	1.00	4.75	3.95	18.76			
	Grid D-C along 7-5 S11	1.00	1.00	4.75	3.95	18.76			
	Grid D-C along 5-3 S12	1.00	1.00	4.75	3.95	18.76			
	Grid D-C along 3-1 S13	1.00	1.00	4.75	3.95	8.06			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	6.15			
	Grid A-B along 7-5 S15	1.00	1.00	4.73	1.30	24.70			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	24.70			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75				
	Ground Floor								
	Roof Slab Shuttering								
	Grid G-F along 7-6 S1	1.00	1.00	4.57	2.75	12.57			
	Grid G-F along 2-1 S4	1.00	1.00	4.57	2.75	12.57			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	8.06			
	Grid A-B along 7-5 S15	1.00	1.00	4.73	1.30	6.15			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	24.70			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75	24.70			
	projection Slab	1.00	1.00	15.00	1.31	19.65			
	Maznain Floor								
	Roof Slab Shuttering								
	Grid A-B along 7-5 S15	1.00	1.00	4.75	1.30	6.18			
	Grid B-C along 7-5 S14	1.00	1.00	3.75	2.15	8.06			
	Grid A-C along 5-3 S16	1.00	1.00	5.20	4.75	24.70			
	Grid A-C along 3-1 S17	1.00	1.00	5.20	4.75	24.70			
	Sump Concrete Shuttering								
	Top Slab	1.00	1.00	3.30	2.30	7.59			
	BOQ Qty 528.94 Sqm				**Total Qty**	**476.54**			
	Upto 125% of BOQ					**476.54**	**395.00**	**Sqm**	**1,88,231.33**
19	KSRB 4-6.9 Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.tm No.4.36, P.No.16, SR:2016-17)								
	Basement Floor								
	Slab Edges	1.00	1.00	76.50	0.20	15.30			
	Ground Floor								
	Slab Edges	1.00	1.00	106.74	0.20	21.35			
	Maznain Floor								
	Slab Edges	1.00	1.00	91.75	0.20	18.35			
	BOQ Qty 46.65 Sqm				**Total Qty**	**55.00**			
	Upto 125% of BOQ					**55.00**	**855.00**	**Sqm**	**47,023.29**
20	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, Sqm propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (I.tm No.4.34, P.No.16, SR:2016-17)								
	Footing PCC Shuttering								
	F2	1.00	5.00	10.20	0.15	7.65			
	F3	1.00	7.00	10.80	0.15	11.34			
	F4	1.00	9.00	9.20	0.15	12.42			
	F6	1.00	1.00	19.80	0.15	2.97			
	F7	1.00	1.00	14.00	0.15	2.10			
	F8	1.00	1.00	14.40	0.15	2.16			
	SSM PCC Shuttering								

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Sl. No	Description of work	No's		Dimensions			Qty/ work	Rate/B.O.Q. Rate	Unit	Amount
138	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead upto 50m.and lift of 1.5m,complete as per specifications,(PWP,IWTD) SR Bangalore Circle 2014. specification. No. KBS (Itm No.2.15, P.No.6, SR:2016-17)									
	F2	1.00	5.00	2.70	2.40	0.40	12.96			
	F3	1.00	7.00	2.80	2.60	0.40	20.38			
	F4	1.00	9.00	2.30	2.30	0.40	19.04			
	F6	1.00	1.00	6.30	3.60	0.40	9.07			
	F7	1.00	1.00	4.30	2.70	0.40	4.64			
	F8	1.00	1.00	4.40	2.80	0.40	4.93			
	Retaining Wall PCC	1.00	1.00	38.50	1.40	0.20	10.78			
	BOQ Qty 61.57 Cum				**Total Qty**		**81.81**			
	Upto 125% of BOQ						**76.96**	**2,220.00**	**Cum**	1,70,851
	Above 125% of BOQ						**4.85**	**2,395.45**	**Cum**	11,616
	Basic rate	**2114.00**								
	Area weightage @ 8 %	**169.12**								
	Total	**2283.12**								
	Add TP 4.92% above	**112.33**								
	Total	**2395.45**								
								Total RS.		1,95,14,410

CERTIFICATE

1) Certified that have inspected the spot & Prepared the Estimate according to the necessity & site conditions.

2)Certified that the work is not split up.

3) Certified that the estimate is prepared on the basis of BOQ rates and Extra item on CSR of PW, P & IWTD, Bangalore Circle, Bangalore for the year 2016-17. (+ T.P. 4.92%)

4) Certified that Adequate & necessary provisions have been made in the estimate.

5) Certified that the above area comes under BBMP limits

NEW ZEN CONSULTANT * BANGALORE *

Asst. Engineer
W-13 Mallasandra
BBMP

Assistant Executive Engineer
Project Sub Division
BBMP

Executive Engineer
Project division , BBMP

ನಂ:ಆಇ/DZ/TS/02/2019-20 ದಿನಾಂಕ :06/06/2019
ರೂ. 195.14 Lakhs/- (Rs. One Hundred and Ninety Five Lakhs Fourteen Thousand Four Hundred and Ten Only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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